Department/School: School of Electrical Engineering and Computer Science 13 March 2024

CURRICULUM VITAE

NAME:

LETHBRIDGE, **Timothy**, P.Eng, I.S.P., FCIPS Professor

DEGREES AND CREDENTIALS:

Degrees:

1994	PhD Computer Science, University of Ottawa, Ontario, Canada
1987	Masters of Computer Science Computer Science, University of New Brunswick, New Brunswick, Canada
1985	Bachelor of Computer Science Computer Science, University of New Brunswick, New Brunswick, Canada

Credentials:

Professional Engineer, Professional Engineers Ontario
Information Systems Professional, Canadian Information Processing Society

EMPLOYMENT HISTORY:

Academic Work Experience:

2005 –	Professor, Professor, Electrical Engineering and Computer Science, University of Ottawa, Ontario, Canada
2010 – 2023	Vice-Dean, Governance, Professor, Faculty of Engineering, University of Ottawa, Ontario, Canada
2005 – 2005	Acting Vice Dean (Academic), Professor, Faculty of Engineering, University of Ottawa, Ontario, Canada
2001 – 2005	Associate Professor, Associate Professor, School of Information Technology and Engineering, University of Ottawa, Ontario, Canada
1994 – 2001	Assistant Professor, Assistant Professor, School of Information Technology and Engineering, University of Ottawa, Ontario, Canada
1990 – 1994	Part Time Professor, Lecturer, Computer Science, University of Ottawa, Ontario, Canada
1986 – 1986	Part Time Professor, Lecturer, Computer Science, University of New Brunswick, New Brunswick, Canada

Non-academic Work Experience:

1987 – 1989	Member of Scientific Staff, Bell-Northern Research (Canada)
1982 – 1985	Programmer, Government of New Brunswick, New Brunswick, Canada

HONOURS:

2016 IEEE Computer Society TCSE Outstanding Educator Award, In recognition of his outstanding contributions to software engineering education through leadership roles in curriculum development, his dissemination of software engineering education ideas through conferences and committees, his chairing of the CSEET steering committee, and his advancing of software engineering education through accreditation processes and curriculum design, IEEE

2015 Best paper Award - SDL Forum 2015, For: *Braun, E., Amyot, D., Lethbridge, TC. "Generating Software Documentation in Use Case Maps from Filtered Execution Traces", SDL Forum, United Kingdom

2010 Cascon High Impact Paper Award for one of best 14 out of 425 papers published in the first decade of Cascon, for Singer, J., Lethbridge, T.C., Vinson, N, and Anquetil, N (1997) "An Examination of Software Engineering Work Practices, IBM Cascon, Canada

2010 Gary Hadford Professional Achievement Award, "[to] CIPS members … recognized by their peers for their integrity, high degree of competence, and outstanding achievements in fields related to information technology, Canadian Information Processing Society, Canada

2009 WCRE Award for Most Influential Paper from 10 years before, for Anquetil, N., and Lethbridge, T.C. (1999), "Experiments with Clustering as a Software Remodularization Method", Working Conference on Reverse Engineering, pp 235-255, Working Conference on Reverse Engineering, France

2006 Outstanding Contribution Award, IEEE, For contributions to SE2004, IEEE, United States

2004 The Mather Premium, Prize given once a year for a paper published in an IEE Journal on computing. For J11. Anquetil, N., and Lethbridge, T.C. (2003), "A Comparative Study of Clustering Algorithms and Abstract Representations for Software Remodularization", IEE Proceedings - Software, pp. 185-201, IEE, United Kingdom

SCHOLARLY and PROFESSIONAL ACTIVITIES:

Event Administration

2005 – General Chair, Conference on Software Engineering Education and Training

2013 – 2015 General Chair, Models 2015: ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems

Editorial Activities

2015 – 2025 Member of Editorial Board, Software and Systems Modeling (Springer)

Journal Review Activities

2015 – Reviewer, Applied Computing and Informatics

2015 – Reviewer, Science of Computer Programming

2015 – Reviewer, International Journal of Parallel, Emergent and Distributed Systems

2011 – Reviewer, Empirical Software Engineering

2009 – Reviewer, Journal of Systems and Software

2009 – Reviewer, Information and Software Technology

2009 – Reviewer, IEEE Software

2009 – Reviewer, Software and Systems Modeling

2013 – 2013 Reviewer, ACM Transactions on Computing Education

2012 – 2013 Reviewer, IEEE Transactions on Education

2011 – 2011 Reviewer, Computer Science Education
2011 – 2011 Reviewer, ACM transactions on Software Engineering and Methodology
2010 – 2010 Reviewer, Enterprise Information Systems
2010 – 2010 Reviewer, IEEE Transactions on Systems, Man and Cybernetics
2009 – 2013 Reviewer, Communications of the ACM
2009 – 2013 Reviewer, Journal of Software: Evolution and Process
2009 – 2012 Reviewer, IEEE Computer
2009 – 2012 Reviewer, IET Software
2009 – 2012 Reviewer, Software Practice and Experience
2009 – 2012 Reviewer, IEEE Transactions on Software Engineering

Conference Review Activities

2009 – Reviewer, Conference on Software Engineering and Training (CSEE&T)
2009 – Reviewer, Models Education Symposium
2009 – Reviewer, Cascon
2011 – 2011 Reviewer, ICSE Education Track
2009 – 2014 Reviewer, ACM/IEEE Conference on Model-Driven Engineering Languages and Systems (Models)
2009 – 2010 Reviewer, International Conference on Program Comprehension
2009 – 2009 Reviewer, Software Language Engineering

Organizational Review Activities

2015 – 2015 University of Manitoba (Academic), External Evaluator, Evaluated Graduate program. Included site visit
2013 – 2013 University of Ontario Institute of Technology, Ontario, Canada, Academic External Evaluator, Evaluated Computer Science undergraduate program, according to provincial requirements. Included site visit
2012 – 2012 Seneca College for Applied Arts and Technology, Ontario, Canada, Academic External Evaluator, Reviewed and evaluated Software Development academic program
2005 – 2015 Canadian Information Processing Society (Not for Profit), Accreditation Visitor, Computer Science accreditation visits to St Mary's University, York University, University of Waterloo, Concordia University, Dalhousie University, Acadia University, University of Saskatchewan, University of Manitoba, Queens University

MEMBERSHIPS

Committee Memberships

2018 – Committee Member, *Vice Chair, Computer Science Accreditation Council*, Canadian Information Processing Society
2018 – Committee Member, *Member of Board of Driectors, CIPS National*, Canadian Information Processing Society
2018 – Committee Member, *Board of Directors Member*, CIPS Ontario
2008 – 2014 Chair, *Computer Science Accreditation Council*, Canadian Information Processing Society, Canada
1989 – 1991 Committee Member, *Member of Board of Governors*, University of Ottawa, Ontario, Canada
1985 – 1987 Committee Member, *Member of Board of Governors*, University of New Brunswick, New Brunswick, Canada
1982 – 1986 Committee Member, *Member of Senate*, University of New Brunswick, New Brunswick, Canada

Other Memberships

2008 – 2025 P. Eng, Professional Engineers Ontario, Canada
2006 – 2025 Certified Member and Fellow, Canadian Information Processing Society, Canada
1996 – 2025 Senior Member, ACM, United States
1989 – 2024 Senior Member, IEEE, United States

SUPERVISIONS:

Summary:

Completed

Principal Supervisor	14 Doctorate
	11 Master's Thesis
	6 Master's non-Thesis
	3 Post-doctorate
Co-Supervisor	36 Bachelor's
	4 Doctorate
	6 Master's Thesis

In Progress

Principal Supervisor	2 Doctorate

Supervision detail:

Reyhaneh Kalantari (Doctorate), Electronic Business *User Experience in Modeling*, Principal Supervisor, September 2020 -

Lovepreet Singh (Master's non-Thesis), Computer Science *Safe Cloud-Based Java Code Execution in UmpleOnline*, Principal Supervisor, September 2021 - May 2022

Shuvankar Saha (Master's non-Thesis), Computer Science *User Experience Analysis of UmpleOnline with real users*, Principal Supervisor, May 2021 - December 2021

Frédérik Laflèche (Master's non-Thesis), Computer Science *Enhancement of External Technology for End-Users Working with Umple*, Principal Supervisor, January 2021 - September 2021

Emmanuel Ayeleso (Doctorate), Computer Science *Modeling for Big Data*, Principal Supervisor, January 2019 - December 2022

Abdulaziz Algablan (Doctorate), Computer Science *Mixsets: Combining Annotative and Compositional Approaches to Variability and Product Lines*, Principal Supervisor, September 2016 - December 2021

Luciane Telinski Wiedermann Agner (Post-doctorate), Computer Science *Use of Modeling Tools in Software Engineering Education*, Principal Supervisor, August 2016 - July 2017

Alvine Boaye Belle (Post-doctorate), Computer Science *Reconstructing DoDAF (Department of Defense Architecture Framework) compliant high level views from information systems*, Principal Supervisor, May 2016 - May 2018

Aliaa Alghamdi (Doctorate), PhD. in E-Business *Enterprise Architecture in Higher Education: Processes, Principles, Challenges, Success Factors and Agility*, Principal Supervisor, January 2016 - September 2020

Amid Zakariapour (Master's Thesis), Computer Science *Real-time Distributed Modeling in Umple*, Co-Supervisor, September 2015 - August 2017

Curtis Meerkerk (Bachelor's), UCOSP *Association Class Semantics (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Adam Kereliuk (Bachelor's), UCOSP *Improvements to UmpleOnline (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Matthew Fritze (Bachelor's), UCOSP *Improvements to Diagram Drawing in Umple (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Aymen Ben Rkhis (Bachelor's), UCOSP *Code analysis improvements in Umple (UCOSP Project)*, Co-Supervisor, September 2015 - December 2015

Vivian Xinxin Kou (Bachelor's), UCOSP *Filtering to allow specification of submodels (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

Warren Marivel (Bachelor's), UCOSP *SCXML: Generation from Umple and importing to Umple (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

Kevin Brightwell (Bachelor's), UCOSP *Automatic conversion of AtlanZoo repositories to Umple (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

John Zweip (Bachelor's), UCOSP *Analysing data for umplification (UCOSP Project)*, Co-Supervisor, January 2015 - April 2015

Robert Weisman (Doctorate), PhD in E-Business *A Leadership Approach to Successful Digital Transformation Using Enterprise Architecture*, Principal Supervisor, September 2014 - December 2019

Nabil Maadarani (Bachelor's), UCOSP *Batch-Umplifying Open Source Code (UCOSP Project)*, Co-Supervisor, September 2014 - April 2015

Alexander Ringeri (Bachelor's), UCOSP *Improving state machine semantics in Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Mark Galloway (Bachelor's), UCOSP *Improving Papyrus integration for Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Karin Ng (Bachelor's), UCOSP *Improving GraphViz generation of Umple diagrams, including Entity-Relationship diagrams (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Alexi Turcotte (Bachelor's), UCOSP *Adding association subsetting and specialization to Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Ellen Arteca (Bachelor's), UCOSP *Adding compositions to Umple (UCOSP Project)*, Co-Supervisor, September 2014 - December 2014

Chan Chun Kit (Bachelor's), Facebook Open Academy *Improvements to Umple's Ecore Generator (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Charles Wang (Bachelor's), Facebook Open Academy *Improvements to UmpleOnline such as saving state and keyboard shortcuts (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Eric Telmer (Bachelor's), Facebook Open Academy *Implementing Deep History and History in Umple State Machine Code Generation (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Adriaan Cody Schuffelen (Bachelor's), Facebook Open Academy *Generating USE from Umple (Facebook Open Academy / UCOSP Project)*, Co-Supervisor, January 2014 - May 2014

Tyler McConnell (Bachelor's), Facebook Open Academy *Fixing various issues in Umple (UCOSP Project)*, Co-Supervisor, January 2014 - April 2014

Sultan Eid Algmagthawi (Doctorate), Computer Science *Model-Driven Testing in Umple*, Principal Supervisor, September 2013 - April 2020

Adesina Opeyemi (Doctorate), Computer Science *Integrating Formal Methods With Model-Driven Engineering*, Co-Supervisor, September 2013 - July 2017

Fiodar Kazhamiaka (Bachelor's), UCOSP *Improving code generation in Umple, including passing through comments to generated code (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Tianyuan Chu (Bachelor's), UCOSP *Ecore generator in Umple (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Marc Antoine Gosselin-Lavigne (Bachelor's), UCOSP *Solving problems with Umple semantic analysis and code generation (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Kenan Kigunda (Bachelor's), UCOSP *Dropbox Integration into UmpleOnline (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Jean-Christophe Charbonneau (Bachelor's), UCOSP *Improvements to UmpleOnline such as allowing optional display of methods and attributes (UCOSP Project)*, Co-Supervisor, September 2013 - December 2013

Abdelzad, Vahdat (Doctorate), Electrical Engineering *Promoting Traits into Model-Driven Development*, Principal Supervisor, May 2013 - May 2017

Antonio Maria Pereira de Resende (Post-doctorate), Computer Science *Software Model Metrics*, Principal Supervisor, March 2013 - March 2014

Geoffrey Guest (Bachelor's), UCOSP *Improvements to the Umple Compiler*, Co-Supervisor, January 2013 - April 2013

Robin Jastrzebski (Bachelor's), UCOSP *Improving association semantics and adding keys to umple (UCOSP Project)*, Co-Supervisor, January 2013 - April 2013

Quinlan Jung (Bachelor's), UCOSP *Constraints in Umple (UCOSP Project)*, Co-Supervisor, January 2013 - April 2013

Blakely Quebec-Desloges (Bachelor's), UCOSP *Detecting naming conflicts when generating code (UCOSP Project)*, Co-Supervisor, January 2013 - April 2013

Thomas Morrison (Bachelor's), UCOSP *Sorted Associations in Umple (UCOSP Project)*, Co-Supervisor, September 2012 - December 2012

Russell Staughton (Bachelor's), UCOSP *Papyrus export for Umple (UCOSP Project)*, Co-Supervisor, September 2012 - December 2012

Christopher Hogan (Bachelor's), UCOSP *Adding constraints to Umple (UCOSP Project)*, Co-Supervisor, September 2012 - December 2012

Mahmoud Husseini Orabi (Doctorate), Computer Science *Facilitating the Representation of Composite Structure, Active objects, Code Generation, and Software Component Descriptions in the Umple Model-Oriented Programming Language*, Principal Supervisor, January 2012 - July 2017

Ahmed Orabi (Doctorate), Computer Science *Multi-Modal Technology for User Interface Analysis including Mental State Detection and Eye Tracking Analysis*, Principal Supervisor, January 2012 - July 2017

Aliaa Alghamdi (Master's Thesis), Systems Science *Extensions to Umple for Interconnected State Machines*, Co-Supervisor, January 2012 - January 2015

Jordan Johns (Bachelor's), UCOSP *Ensuring comments pass through to generated code, and enabling the declaration of abstract classes in Umple (UCOSP project)*, Co-Supervisor, January 2012 - April 2012

Sonya Adams (Bachelor's), UCOSP *Adding immutability to classes attributes and associations in Umple (UCOSP Project)*, Co-Supervisor, January 2012 - April 2012

Song Bae Choi (Bachelor's), UCOSP *Resolving issues related to sychronizing text and diagrams in UmpleOnline (UCOSP Project)*, Co-Supervisor, January 2012 - April 2012

Joel Hobson (Bachelor's), UCOSP *Developer debug capabilities for Umple (UCOSP Project)*, Co-Supervisor, September 2011 - December 2011

Joshua Horacsek (Bachelor's), UCOSP *Improving feedback on syntax and semantic errors in Umple (UCOSP Project)*, Co-Supervisor, September 2011 - December 2011

Miguel Garzon (Doctorate), Computer Science *Umplification: Incremental reverse engineering from source code to model-oriented programs in Umple*, Principal Supervisor, September 2010 - July 2015

Sultan Eid Almagthawi (Master's Thesis), Computer Science *Generation of C++ From the Umple Model-Oriented Programming Technology*, Principal Supervisor, September 2010 - September 2013

Hamoud Aljamaan (Doctorate), Computer Science *Model-Oriented Tracing Language: Producing Execution Traces from Tracepoints Injected into Code Generated from UML Models*, Principal Supervisor, January 2010 - September 2015

Jenya Levin (Master's Thesis), Computer Science *System Generation for Time and Activity Management Product Lines*, Principal Supervisor, September 2008 - December 2009

Julian Solano (Master's Thesis), Systems Science *Exploring How Model Oriented Programming Can Be Extended to the User Interface Level*, Principal Supervisor, January 2008 - March 2010

Omar Bahy Badreddin (Doctorate), Computer Science *A Manifestation of Model-Code Duality: Facilitating the Representation of State Machines in the Umple Model-Oriented Programming Language*, Principal Supervisor, December 2007 - March 2012

Dusan Brestovansky (Master's Thesis), Computer Science *Exploring Textual Modeling Using the Umple Language*, Principal Supervisor, July 2007 - September 2008

Andrew Forward (Doctorate), Computer Science *The Convergence of Modeling and Programming: Facilitating the Representation of Attributes and Associations in the Umple Model-Oriented Programming Language*, Principal Supervisor, September 2006 - October 2010

Ali Fatolahi (Doctorate), Computer Science *An Abstract Meta-Model for Model Driven Development of Web Applications Targeting Multiple Platforms*, Co-Supervisor, May 2006 - August 2012

Mehrdad Nojoumian (Master's Thesis), Computer Science *Document Engineering of Complex Software Specifications*, Principal Supervisor, October 2005 - June 2007

Hanna Farah (Master's Thesis), Electrical Engineering *Applying Cognitive Patterns to Support Software Tool Development*, Principal Supervisor, September 2005 - December 2006

Max Nozin (Master's Thesis), Computer Science *A Privacy Framework to Provide Users with Control, Accuracy and Audit*, Co-Supervisor, April 2004 - July 2005

Bo Zhao (Master's Thesis), Systems Science *An Enriched Web Services Client Architecture for Management and Sharing of Context*, Co-Supervisor, January 2004 - May 2005

Rana Khartabil (Master's Thesis), Computer Science *User-Centered Design and Evaluation of a Dynamic Biochemical Pathway Visualization Tool*, Co-Supervisor, January 2003 - April 2005

Eric Fu (Master's Thesis), Computer Science *Exploration and Visualization of Large Execution Traces*, Principal Supervisor, January 2003 - April 2005

Edna Braun (Doctorate), Computer Science *Reverse engineering behavioral models by filtering out utilities from execution traces*, Co-Supervisor, September 2002 - September 2013

Xuyen On (Master's Thesis), Computer Science *Interactive Web Charts for Visualizing Large Data Sets*, Co-Supervisor, September 2002 - March 2005

Andrew Forward (Master's Thesis), Computer Science *Software Documentation: Building and Maintaining Artefacts of Communication*, Principal Supervisor, September 2001 - October 2002

Adam Murray (Doctorate), Computer Science *Discourse Structure of Software Explanation: Snapshot Theory, Cognitive Patterns and Grounded Theory Methods*, Principal Supervisor, September 2000 - September 2006

Abdelwahab Hamou-Lhadj (Doctorate), Computer Science *Techniques to Simplify the Analysis of Execution Traces for Program Comprehension*, Principal Supervisor, January 2000 - October 2005

Huixiang Liu (Master's Thesis), Computer Science *Intelligent Search Techniques for Large Software Systems*, Principal Supervisor, January 2000 - November 2001

Iyad Zayour (Doctorate), Computer Science *Reverse Engineering: A Cognitive Approach, a Case Study and a Tool*, Principal Supervisor, January 1999 - March 2002

LiQun Wang (Master's Thesis), Systems Science *Animated Exploring of Huge Software Systems*, Principal Supervisor, September 1998 - January 2003

Mohammad Mtairek (Master's non-Thesis), Computer Science *Object-Oriented Abstractions of Non Object-Oriented Software*, Principal Supervisor, September 1998 - April 2002

Francisco Herrera (Master's Thesis), Computer Science *A Usability Study of the "TkSee" Software Exploration Tool*, Principal Supervisor, September 1997 - September 1999

Lisa Borgia (Master's non-Thesis), Computer Science *Performance Comparison of Memory-Mapped C++ Objects with a Commercial Database*, Principal Supervisor, September 1996 - December 1998

Priya Ramalingom (Master's non-Thesis), Computer Science *Adding A Generic Debugger to a Source Code Exploration Environment*, Principal Supervisor, September 1995 - December 1997

Jelber Sayyad-Shirabad (Doctorate), Computer Science *Learning Usage Patterns to Assist Source Code Browsing*, Co-Supervisor, September 1994 - March 2003

COURSES:

Undergraduate Courses

CS1013 Computer Science Concepts in Fortran University of New Brunswick, New Brunswick:
May, 1986 - June, 1986

CS2083 Interactive Programming in APL University of New Brunswick, New Brunswick:
June, 1986 - August, 1986

CSI2110 Data Structures:
January, 1996 - April, 1996

CSI2377 Smalltalk Programming Lab University of Ottawa, Ontario:
January, 1990 - April, 1990

CSI4111 Software Evolution and Re-Engineering University of Ottawa, Ontario:
January, 1993 - December, 1996

ELG/SEG/CSI2911 Professional Practice in Electrical Engineering and Computer Science University of Ottawa, Ontario:
January, 2010 - April, 2014

SEG2105 Introduction to Software Engineering University of Ottawa, Ontario:
January, 1991 - July, 2020

SEG3125 User Interface Analysis and Design University of Ottawa, Ontario:
May, 1995 - July, 2001

SEG4110 Advanced Software Design and Reengineering University of Ottawa, Ontario:
May, 1994 - December, 2015

SEG4910/SEG4911 Capstone Project in Software Engineering University of Ottawa, Ontario:
September, 2000 - April, 2023

Graduate Courses

CSI5122 Software Usability University of Ottawa, Ontario:
January, 1999 - April, 2021

LIFETIME FUNDING:

- Total amount of funding received.....$2,686,348.00
As Principal Investigator.....$2,220,998.00

EXTERNAL RESEARCH FUNDING:

Date(s)	Source	Type	Investigator	Amount

Date(s)	Source	Type	Investigator	Amount
2022/4 - 2028/3	Natural Sciences and Engineering Research Council of Canada (NSERC) Title: Identifying and Overcoming Obstacles to Effective Software Modeling Program: NSERC Discovery Grant	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $120,000
2016/5 - 2018/5	Mitacs and KDM Analytics Title: Mitacs Accelerate: Reconstructing DoDAF (Department of Defense Architecture Framework) compliant high level views from information systems Program: Mitacs Accelerate	Type: Grant Purpose: Operating	My Role: Principal Investigator Co-applicant: Alvine Boaye-Belle	Funding Total: $75,000 ($75,000 received)
2016/4 - 2021/3	Natural Sciences and Engineering Research Council of Canada (NSERC) Title: Discovery Grant: Improving the Capabilities and Applicability of Umple Program: Discovery Grants	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $130,000 ($130,000 received)
2011/9 - 2016/9	Ontario Research Fund, General Motors and IBM Title: ORF Grant - Model-Based Software Engineering Program: Model-Based Software Engineering	Type: Grant	My Role: Co-investigator Principal Investigator: Joanne Atlee	Funding Total: $381,000 ($381,000 received)
2011/4 - 2016/3	NSERC Title: Discovery Grant: Evaluating and improving the Umple model-oriented programming language Program:	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $145,000 ($145,000 received)

Date(s)	Source	Type	Investigator	Amount
	Discovery Grants			
2009/5 - 2012/4	Ericsson and IBM and NSERC Title: CRD - Tracing in software engineering Program: CRD	Type: Grant Purpose: Operating	My Role: Co-investigator Principal Investigator: Michel Dagenais	Funding Total: $79,350 ($79,350 received)
2009/5 - 2009/8	Social Sciences and Humanities Research Council of Canada (SSHRC) Title: Factors influencing high school and university students' educational and career decisions in the field of information technology Program: Challenges and Opportunities of a Knowledge-based Economy	Type: Grant Purpose: Operating	My Role: Co-investigator	Funding Total: $5,000
2007/1 - 2010/12	IBM Canada Ltd Title: CAS Fellowship Program: CAS Fellowships	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $120,000
2006/4 - 2011/3	Natural Sciences and Engineering Research Council of Canada (NSERC) Title: Improving the preciseness and usability of UML Program: Discovery Grants	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $139,000
2004/4 - 2006/3	IBM and NSERC Title: CSER: Applying Cognitive Patterns to Support Software Tool Development Program: CRD	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $100,000

Date(s)	Source	Type	Investigator	Amount
2003/4 - 2004/9	QNX Title: Analyzing Traces with SEAT Program: Research Grant	Type: Grant	My Role: Principal Investigator	Funding Total: $42,000
2002/4 - 2006/3	Natural Sciences and Engineering Research Council of Canada (NSERC) Title: Discovery Grant: Visualization of Software Program: Discovery Grants	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $118,000
1999/4 - 2002/3	Mitel and NSERC Title: Consortium for Software Engineering Research Program: Consortium for Software Engineering Research	Type: Grant	My Role: Principal Investigator	Funding Total: $540,000
1998/4 - 2002/3	Natural Sciences and Engineering Research Council of Canada (NSERC) Title: Discovery Grant: Analysis - level patterns in object-oriented software Program: Discovery Grants	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $46,200
1996/4 - 1999/3	Mitel and NSERC Title: Consortium for Software Engineering Research Program: Consortium for Software Engineering Research	Type: Grant	My Role: Principal Investigator	Funding Total: $524,298
1995/5 -	MITEL Corporation (Kanata, ON)	Type:	My Role:	Funding Total:

Date(s)	Source	Type	Investigator	Amount
1996/4	Title: Knowledge Based reverse Engineering Program: Grant	Contract	Principal Investigator	$60,000 ($60,000 received)

INTERNAL RESEARCH FUNDING:

Date(s)	Source	Type	Investigator	Amount
2018/7 - 2020/6	University of Ottawa Title: Internal Stipend Program: Research Stipend 12K per year	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $24,000 ($24,000 received)
2014/7 - 2017/6	University of Ottawa Title: Internal Stipend Program: Research Stipend 7.5K per year	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $22,500 ($22,500 received)
2008/7 - 2014/6	University of Ottawa Title: Internal Stipend Program: Research Stipend 2.5K per year	Type: Grant Purpose: Operating	My Role: Principal Investigator	Funding Total: $15,000 ($15,000 received)

CONTRIBUTIONS:

Life-time summary count according to the following categories:

Books Authored....3
Refereed Journal Articles....29
Conference Publications....140
Refereed Chapters In Books....11
Reports....5
Intellectual Properties....1
Other Contributions....9

PUBLICATIONS:

Books Authored

3. Thompson, JB, Edwards, HM, Lethbridge, TC. (2004, June). *Post-summit Proceedings: International Summit on Software Engineering Education, Co-located with International Conference on Software Engineering, May 2002, Orlando, USA*: University of Sunderland Press.
2. Lethbridge, T., Laganière, R. (2004, January). *Object-Oriented Software Engineering: Practical Software Development using UML and Java* (2 ed.). London, UK: McGraw Hill. Retrieved from https://www.site.uottawa.ca/school/research/lloseng
1. Lethbridge, T, Laganière, R. (2001, June). *Object-Oriented Software Engineering: Practical Software Development using UML and Java* (1 ed.). London, UK: Mcgraw-Hill.

Refereed Chapters In Books

11. Lethbridge, TC and *Algablan, A. (2021). Umple: An Executable UML-Based Technology for Agile Model-Driven Development. In Y Rhazali (Ed.), *Advancements in Model-Driven Architecture in Software Engineering* (pp. 1-25). IGI Global. doi:10.4018/978-1-7998-3661-2.ch001
10. Lethbridge, TC. (2015, October). Usable Software Tools: Winding Paths of Involvement in Cascon and CAS. In Litoiu, M., Lyons, K., Müller, H., Ng, J (Eds.), *CAS and CASCON Honouring 25 Years of IBM Research and Innovation* (pp. 85-88). Toronto, Canada: IBM. Retrieved from https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=9fbf4360715582fe56fbcee8b6e4fc831f7ae6b0#page=88
9. Lethbridge, Timothy C, Lyon, Steve, Perry, Peter. (2008, June). The Management of University - Industry Collaborations Involving Empirical Studies of Software Engineering. In Shull, F., Singer. J, and Sjøberg, D (Eds.), *Guide to Advanced Empirical Software Engineering* (pp. 257-284). Springer London. https://doi.org/10.1007/978-1-84800-044-5_10
8. Singer, J., Sim. S., and Lethbridge, T.C. (2008, June). Software Engineering Data Collection for Field Studies. In Shull, F., Singer. J, and Sjøberg, D (Eds.), *Guide to Advanced Empirical Software Engineering* (pp. 9-34). Springer London. https://doi.org/10.1007/978-1-84800-044-5_1
7. Shirabad, Jelber Sayyad, Lethbridge, Timothy C, Matwin, Stan. (2007, June). Discovering Relevance Relations in Software Systems Using Data Mining Techniques. In Zhang, D., Tsai, J (Eds.), *Advances in machine learning applications in software engineering* (pp. 168-207). IGI Global. doi:10.4018/978-1-59140-941-1.ch008
6. Atlee, Joanne M, LeBlanc Jr, Richard J, Lethbridge, Timothy C, Sobel, Ann, Thompson, J Barrie. (2006, June). Reflections on Software Engineering 2004, the ACM/IEEE-CS Guidelines for Undergraduate Programs in Software Engineering. *Software Engineering Education in the Modern Age* (Vol. LNCS 4309) (pp. 11-27). Springer Berlin Heidelberg. https://doi.org/10.1007/11949374_2
5. Giese, Holger, Roques, Pascal, Lethbridge, Timothy C. (2006, June). Summary of the Educator's Symposium. *Satellite Events at the MoDELS 2005 Conference* (Vol. LNCS 3844) (pp. 302-305). Springer Berlin Heidelberg. https://doi.org/10.1007/11663430_3
4. Lethbridge, Timothy, Singer, Janice. (2002, June). Studies of the Work Practices of Software Engineers. In Erdogmus, H., Tanir, O (Eds.), *Advances in Software Engineering: Comprehension, Evaluation and Evolution* (pp. 51-72). Springer New York. https://doi.org/10.1007/978-0-387-21599-0_3
3. Lethbridge, Timothy C, Anquetil, Nicolas. (2002, June). Evaluation of Approaches to Clustering for Program Comprehension and Remodularization. In Erdogmus, H., Tanir, O (Eds.), *Advances in Software*

Engineering: Comprehension, Evaluation and Evolution (pp. 137-157). Springer New York. https://doi.org/10.1007/978-0-387-21599-0_7

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PRESENTATIONS:

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   Research Type: Scientific Research
3. Keynote Address. (2018, February). "Teaching Effective UML Modeling by Combining it with Programming". National 6th Kinneret Conference on Software Engineering Education, Kinneret, Israel. Retrieved from http://www.site.uottawa.ca/~tcl/presentations/KinneretUmpleKeynote.pptx
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2. Lecture. (2018, February). "Practical Model-Based Programming: When Agile and Modeling Meet". National ITLAM, 2-day mini-course, Herzlia, Israel. Retrieved from http://www.site.uottawa.ca/~tcl/presentations/AgileAndModelingMeetWithUmple.pptx
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INTELLECTUAL PROPERTIES:

Patents

1. Farah, H.*, Antkiewicz, M., Mindel, M.; Murray, A.*. Lethbridge, T.C. (2016, May). Systems, Method and Computer Program Products for Tracking and Viewing Changes to Information Stored in a Data Structure Patent No. 9348581. Retrieved from https://patentimages.storage.googleapis.com/23/19/2d/917399f9e991fc/US9348581.pdf
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OTHER CONTRIBUTIONS:

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   A compiler that combines UML class diagrams, state diagrams, traits, mixins and other techniques into Java, PHP, C++ and other languages. Includes an online website, a command-line tool, plugins for IDEs and extensive manual. Used widely for education in universities around the world

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